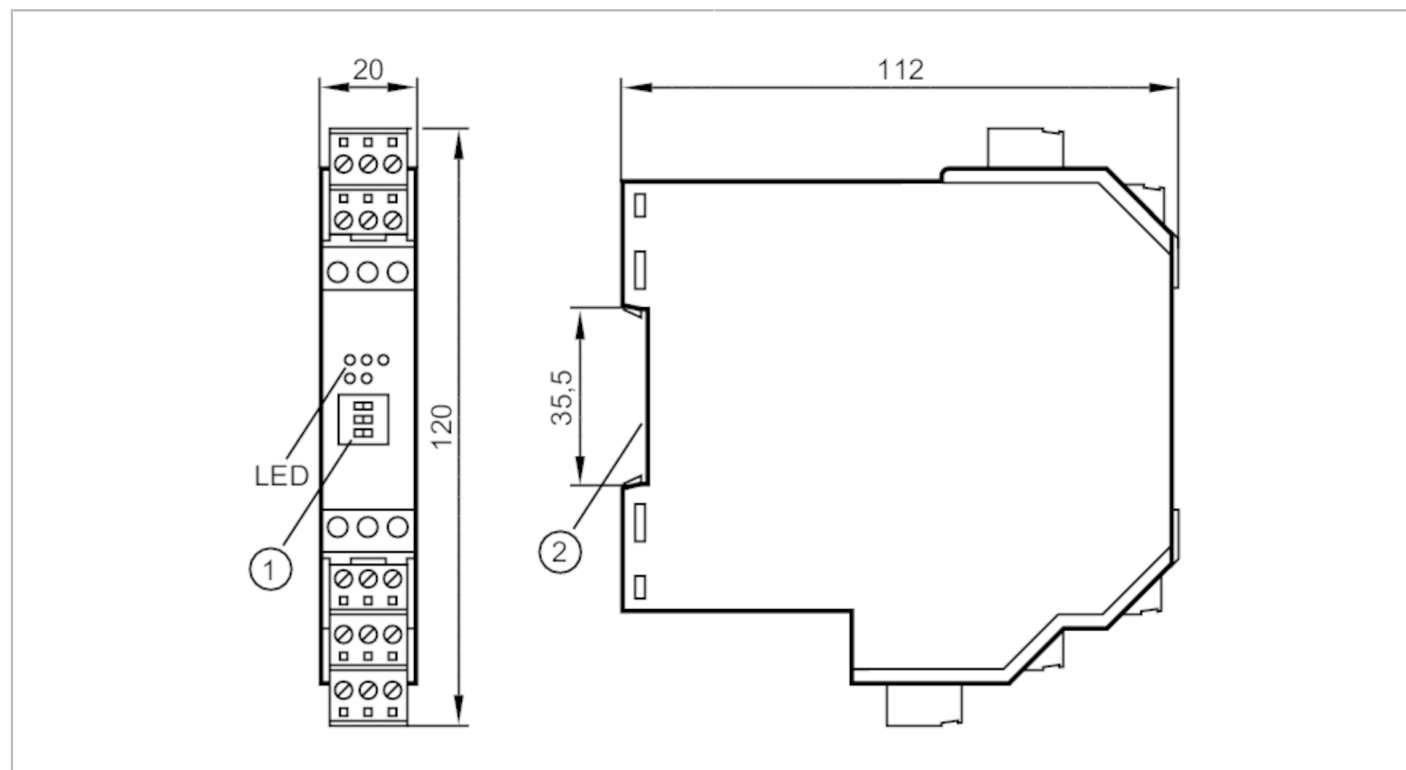




## Switching amplifiers for Namur sensors

NV1221/115VAC/RL/1D/1G



| Application                 |                                                                                                              |          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------|----------|
| Application                 | short-circuit monitoring; Wire monitoring                                                                    |          |
| Electrical data             |                                                                                                              |          |
| Operating voltage tolerance | [%]                                                                                                          | -10...10 |
| Operating voltage           | [V]                                                                                                          | < 115 AC |
| Power consumption           | [W]                                                                                                          | 1.3      |
| Number of channels          |                                                                                                              | 2        |
| Outputs                     |                                                                                                              |          |
| Electrical design           | relay; (per channel: 1 changeover contact)                                                                   |          |
| Contact rating              | 253 V AC / 2 A / cos phi > 0,7 // 40 V DC / 2 A; (ohmic resistance)                                          |          |
| Switching frequency AC      | [Hz]                                                                                                         | 10       |
| Operating conditions        |                                                                                                              |          |
| Ambient temperature         | [°C]                                                                                                         | -20...60 |
| Protection                  |                                                                                                              | IP 20    |
| Tests / approvals           |                                                                                                              |          |
| Approval                    | PTB 02 ATEX 2035; TIIS TC16048; IECEx PTB 17.0023                                                            |          |
| ATEX marking                |  II (1) G [Ex ia Ga] IIC  |          |
|                             |  II (1) D [Ex ia Da] IIIC |          |
| EMC                         | EN 50081-2                                                                                                   | (1993)   |
|                             | EN 61326-1                                                                                                   | (2006)   |
| MTTF                        | [years]                                                                                                      | 458      |

# N0032A



## Switching amplifiers for Namur sensors

NV1221/115VAC/RL/1D/1G

| Mechanical data               |                                                                         |                 |
|-------------------------------|-------------------------------------------------------------------------|-----------------|
| Weight                        | [g]                                                                     | 230.45          |
| Switching cycles mechanical   |                                                                         | 10 million      |
| Displays / operating elements |                                                                         |                 |
| Display                       | switching status                                                        | 2 x LED, yellow |
|                               | operation                                                               | LED, green      |
|                               | function                                                                | 2 x LED, red    |
| Remarks                       |                                                                         |                 |
| Remarks                       | Caution The control monitor must be mounted outside the hazardous area. |                 |
|                               | Free terminals must not be used.                                        |                 |
| Pack quantity                 | 1 pcs.                                                                  |                 |

## Switching amplifiers for Namur sensors

NV1221/115VAC/RL/1D/1G

## Electrical connection

terminals: ...2.5 mm<sup>2</sup>

## Connection



# N0032A



## Switching amplifiers for Namur sensors

NV1221/115VAC/RL/1D/1G

### Other data

#### Maximum values for control circuit

| in protection rating<br>intrinsic safety | [EEx ia] IIC | [EEx ia] IIB | [EEx ib] IIC | [EEx ib] IIB |
|------------------------------------------|--------------|--------------|--------------|--------------|
| Voltage [V]                              | 10.6         | 10.6         | 10.6         | 10.6         |
| Current [mA]                             | 19.1         | 19.1         | 19.1         | 19.1         |
| Power [mW]                               | 51           | 51           | 51           | 51           |
| External inductance [mH]                 | 97           | 390          | 97           | 390          |
| External capacitance [ $\mu$ F]          | 2.32         | 16.2         | 2.32         | 16.2         |